STP Gate

'Smart Terminal Plus' Gate

Stand Alone Access Control
With STP Gate management Software

User Manual

Revision 1.04

Notes

The reader is advised to read this manual carefully and to understand its contents before using any devices.

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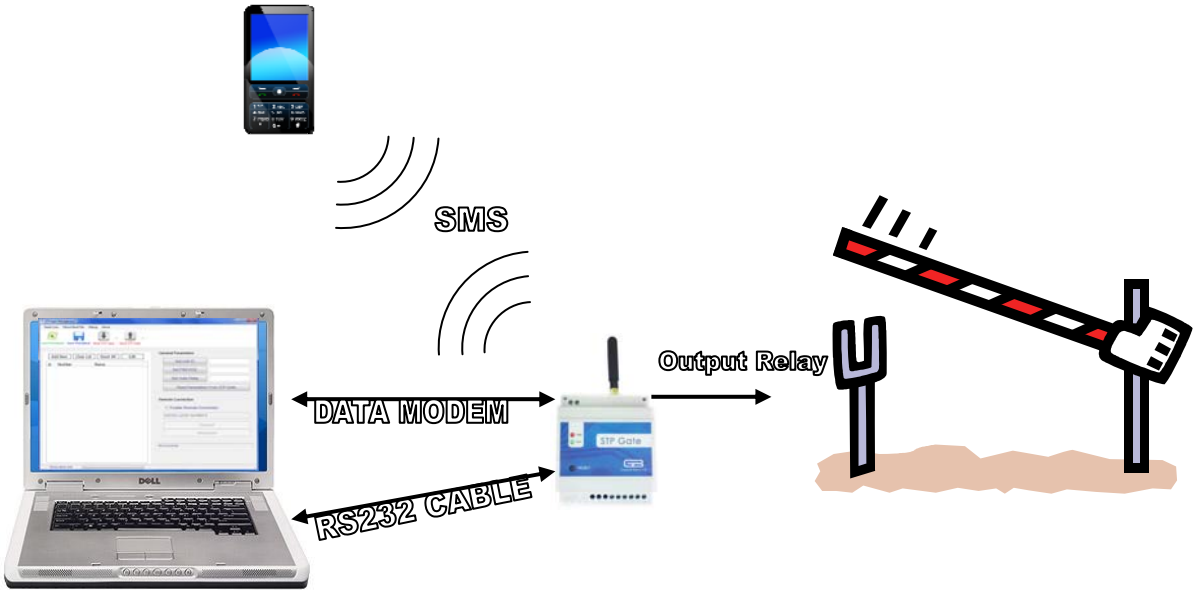
ILLUSTRATION



STP Gate access control unit

STP Gate is a very easy to use controller for access control tasks.

Together with STP Gate Management application, you can handle up to 2000 phone numbers, update, edit, delete, import from Excel sheets and much more in a very simple and easy manner.

STP Gate can communicate via direct cable connection, modem connection and SMS messaging as will be described in this manual.

1. INSTALLING THE STP GATE

Installing the **STP Lite** is a simple procedure that should take no more than a few minutes. This chapter contains instructions for installing both hardware and software.

1.1 Package Contents

The **STP Gate** unit comes in a kit with the accessories listed in the table below. The table lists the contents of the kit and their part numbers.
The size of Phonebook List is determine by the Part Number.

Table 1: Package Contents

Part	Description	QTY	P/N
	STP Gate Controller Unit **Note the Phone Book size according to P/N in brackets.**	1	STPG0002 (max: 200) STPG0010 (max: 1000) STPG0020 (max: 2000)
	Power Supply 12 V DC Voltage Transformer	1	PS220121
	DIN Rail	1	STP00701
	RJ45 Cable—Connects the **STP Gate** to the serial RS232 port of the computer	1	RJ45RJ45
	RJ45 to DB9 converter—The DB9 converter allows a connection to the 9-pin serial port of the computer	1	CORJ459F
	GSM Antenna	1	AP001A00
	GSM Antenna 90 deg	1	RUB009A
	CD of Documentation and **Logic Flow Gate** installation software	1	CDR0001

1.2 Mounting the STP Gate Unit

Mount the **STP Gate** by pushing or snap-fitting it onto a DIN rail (top-hat rail 3.5 mm). Pull out the black tab on the **STP Gate** device using a screwdriver, and snap the device onto the DIN rail. Ensure that the retaining mechanism of the **STP Gate** snaps cleanly and securely onto the DIN rail.

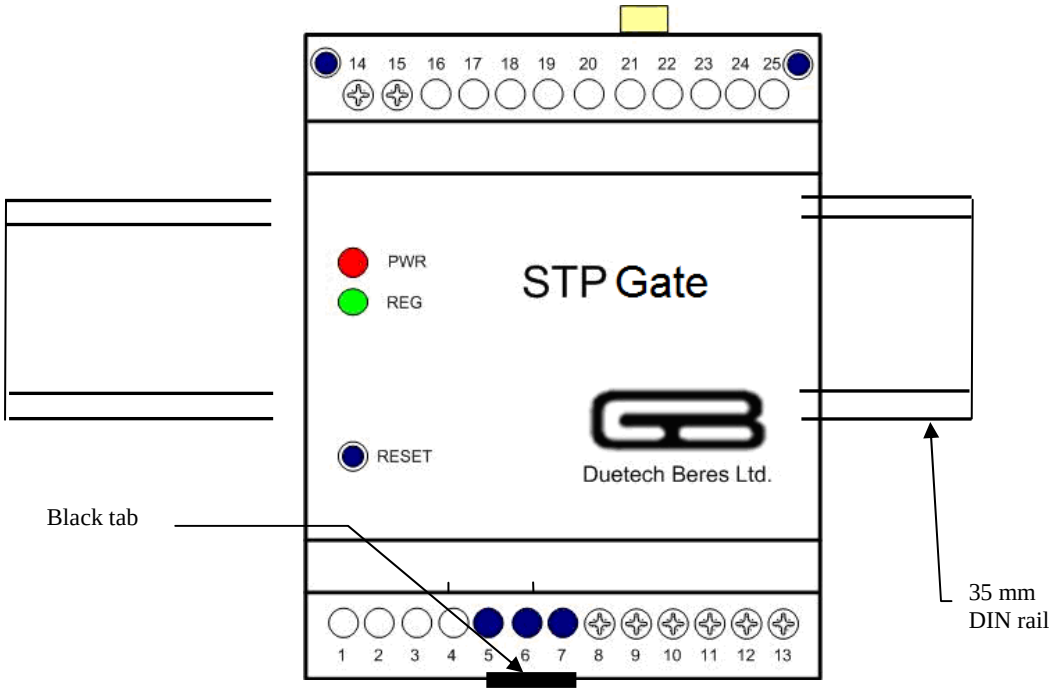


Figure 1: Top view of STP Gate attached to DIN rail

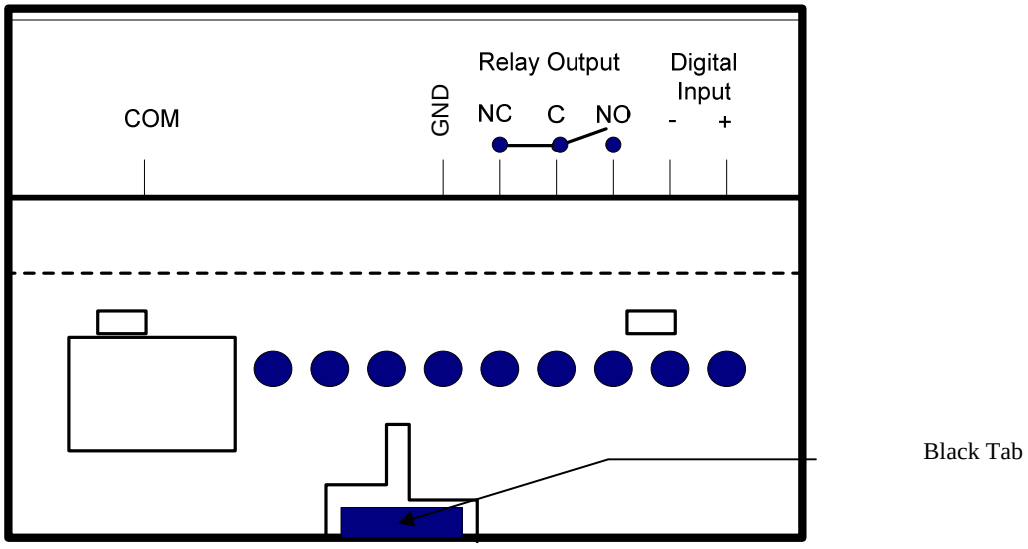


Figure 2: Side view of STP Gate

	ATTENTION: Do not force the **STP Gate** onto the DIN rail. Forcing the device on the rail may crack the black tab or the **STP Gate** casing, and may seriously compromise the stability of the device.

	DANGER: • The device must only be used in rooms that are dry and clean. Protect the device from humidity, water or heat. • The device must not be used in environments containing flammable gases, fumes or dust. • Do not subject the device to shock or severe vibrations.

1.3 Hardware installation

The installation of the **STP Gate** can be completed in minutes. You will need a pocket screwdriver (not supplied in the kit) to attach the power supply. A 3.5mm wide Phillips or flathead screwdriver will do.

1.3.1 Connecting the GSM Antenna

Screw the GSM antenna (included with the **STP Gate** device) onto the **STP Gate**'s antenna SMA connector.

The antenna serves the same purpose as the antenna of any cellular phone. The antenna must be attached for optimal performance of the device.

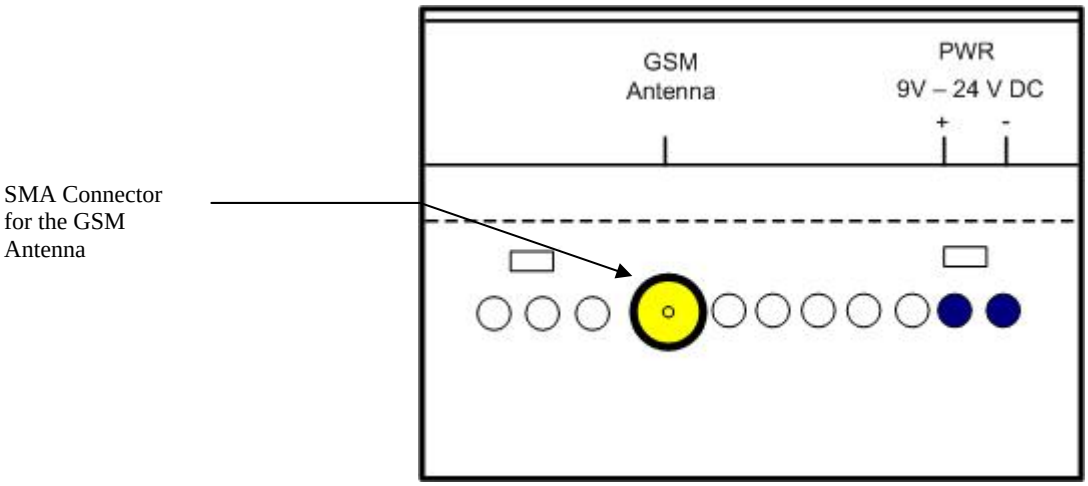


Figure 3: Side View of STP Gate Showing Antenna Connector

⚠	**ATTENTION:** Detaching the antenna while the **STP Gate** is powered on may damage the device.

1.3.2 Installing the SIM Card

Open the **STP Gate** casing by gently pushing in the two tabs at the top (where the GSM Antenna is attached) or bottom (where are the attachments for the digital output and input) of the device.

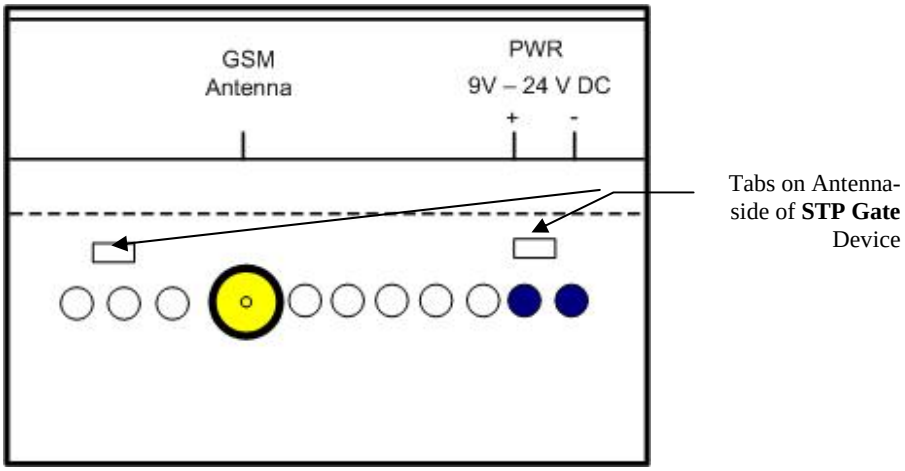


Figure 4: Antenna-side view of STP Gate unit, showing the tabs for opening the device

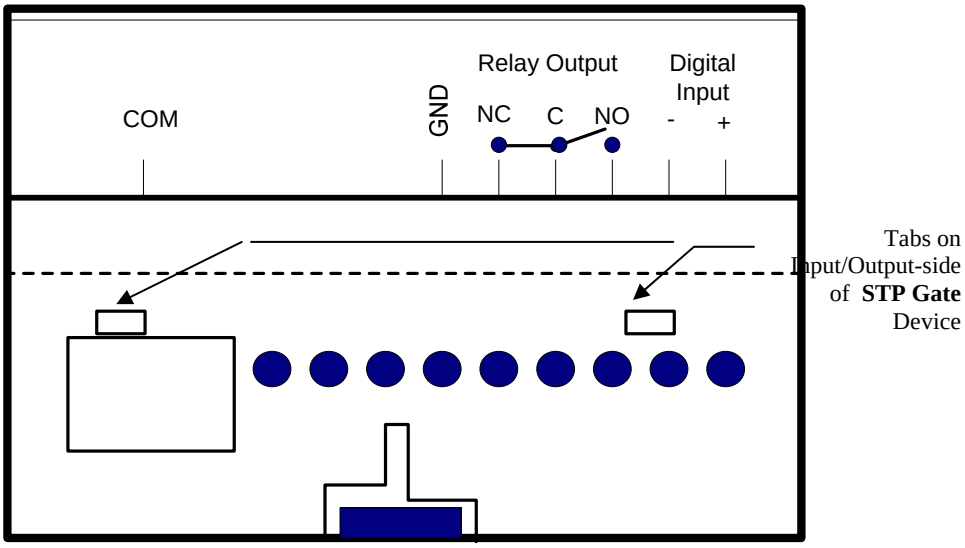


Figure 5: Input/Output side view of STP Gate unit

Place a SIM card in the SIM card holder.

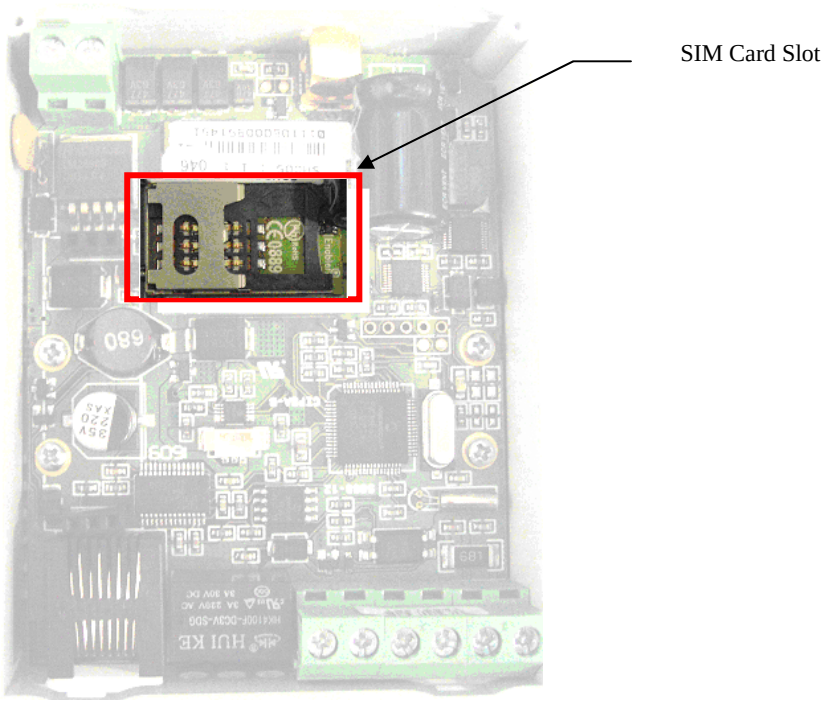


Figure 6: Inside of STP Gate unit, showing the slot for the SIM card

⚠	**ATTENTION:** • Do not insert or remove the SIM card when the power supply is attached. Doing so might result in damage or loss of data on the SIM card! • Avoid touching the contacts of the SIM card. The SIM is sensitive to electrostatic discharge. • If you are installing a used SIM card, insert the SIM in a mobile phone first to ensure that the SIM doesn't contain any saved SMS messages. These messages may cause the **STP Gate** to malfunction.

1.3.3 Connecting the RJ45 cable

Connect the RJ45 cable (supplied with the **STP Gate**) to the **STP Gate** unit via the socket labeled "COM".

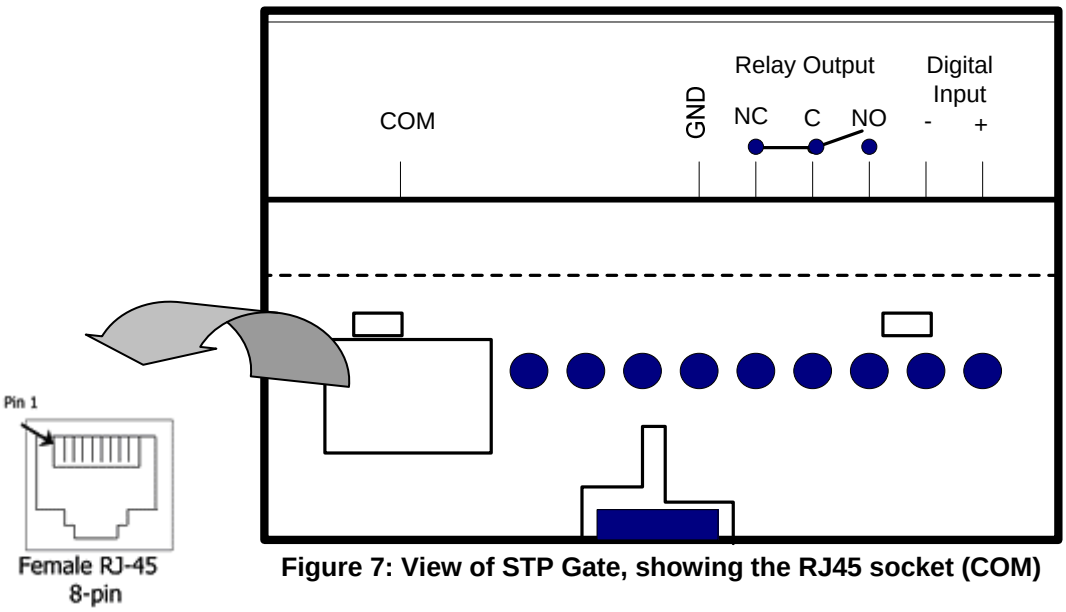


Figure 7: View of STP Gate, showing the RJ45 socket (COM)

1.3.4 Attaching the RJ45 to DB9 Adapter

Attach the RJ45 to DB9 adapter the 9-pin, RS232 port on your computer.

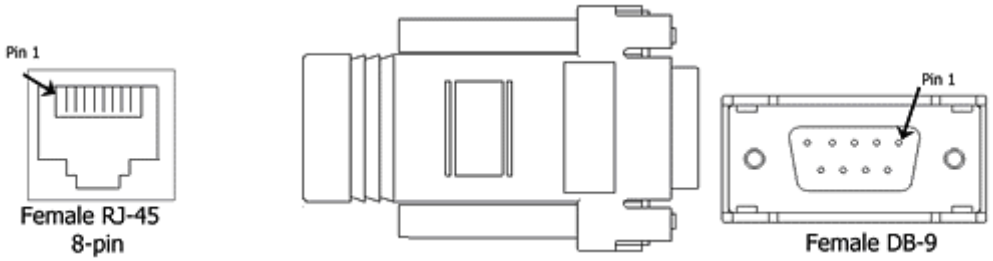


Figure 8: RJ45 to DB9 Adaptor

Hook up the **STP Gate** to your computer by inserting the other end of the RJ45 cable into the adapter.

1.3.5 Connecting the Power Supply

Once you have completed all the other installation steps, you can attach the power supply to the **STP Gate** unit.

The **STP Gate** operates on the range between 9-24 V DC. The **STP Gate** kit contains a transformer that converts the wall current to 12 V DC. The connector has two bare wires, one to be connected to the negative terminal, and one to the positive terminal of the **STP Gate** unit. The striped wire is connected to the negative (or "ground") terminal, and the solid black wire from the transformer is connected to the positive terminal.

The **STP Gate** unit has numbered rows of terminal blocks. Insert the leads into the appropriate terminal blocks on the side of the **STP Gate** unit, using a 6-mm wide flathead or Phillips screwdriver.

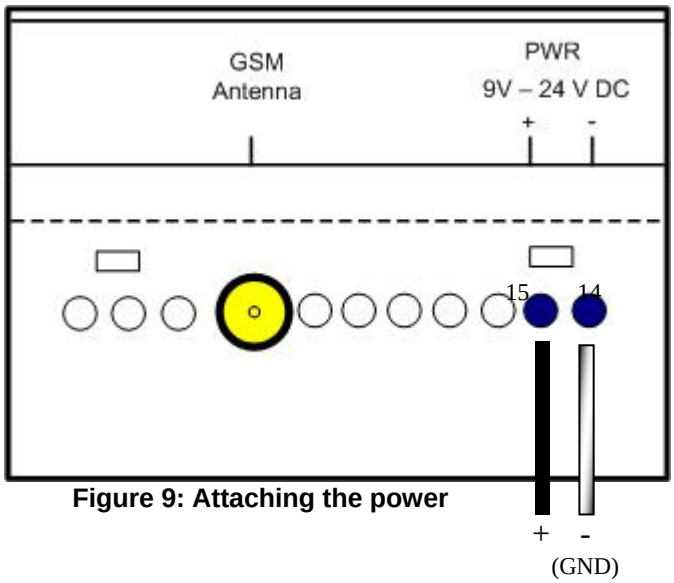


Figure 9: Attaching the power

The following table shows the correct connections of the transformer to the **STP Gate**.

Table 2: Terminal Blocks for Attaching the Power Supply to the STP Gate

Terminal Block Number	Purpose
Hole 14	GND lead from transformer
Hole 15	Positive power supply lead from transformer

ATTENTION:

- Ensure the correct polarity of the power supply terminals.
- If using another DC voltage source, be certain not to exceed 24 V. This will cause irreversible damage to the **STP Gate** unit.

DANGER:

- The device should be wired in a de-energized state.
- Regularly check the live cables to which the devices are connected for faults or breaks in the insulation. If any such fault is found, immediately turn off the device and replace the wiring.

1.3.6 Status LEDS

The **STP Gate** has two status LEDs to indicate that you have installed everything properly and that the device is in proper working order. The red LED indicates that the device is receiving power. The green LED indicates that the device is registered to the cellular network.

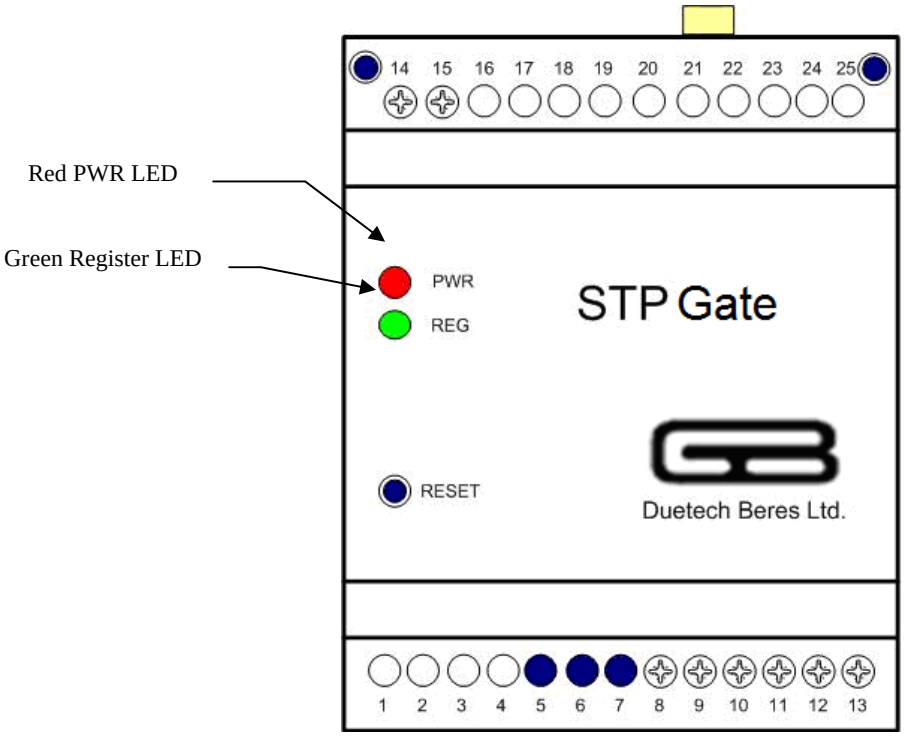


Figure 10: Status LEDs in STP Gate

1.3.7 Red PWR LED

After applying the 12 V DC Power Supply, check that the red PWR LED lights up. The red PWR LED indicates that the main power is applied.

Table 3: PWR LED Indications

LED Indication	Operation Status
No indication	No power
Red, steady	Power on

1.3.8 Green GSM LED

The green GSM LED indicates that the unit registers to the network. When you first power up the **STP Gate**, or press Restart, the device emits 1 beep, and in a few seconds the green LED lights up. The green LED will remain lit continuously for couple of seconds, while the device is searching for the cellular network. A 2 lower-pitched beeps then indicates that the device is connected and functioning, and the green LED subsequently flashes periodically.

During normal functioning of the device, the green LED serves as the modem registration indicator. This light is on when the modem powers up, and flashes when the **STP Gate** is registered with the cellular network.

Table 4: Green REG LED Indications

LED Indication	Operation Status
No indication	GSM unit Off
Green, steady	Device is searching for the network connection
Green, blinking	Connected to a network

1.3.9 Reset Button

This will allow you to restart the device without having to detach it from the power supply.

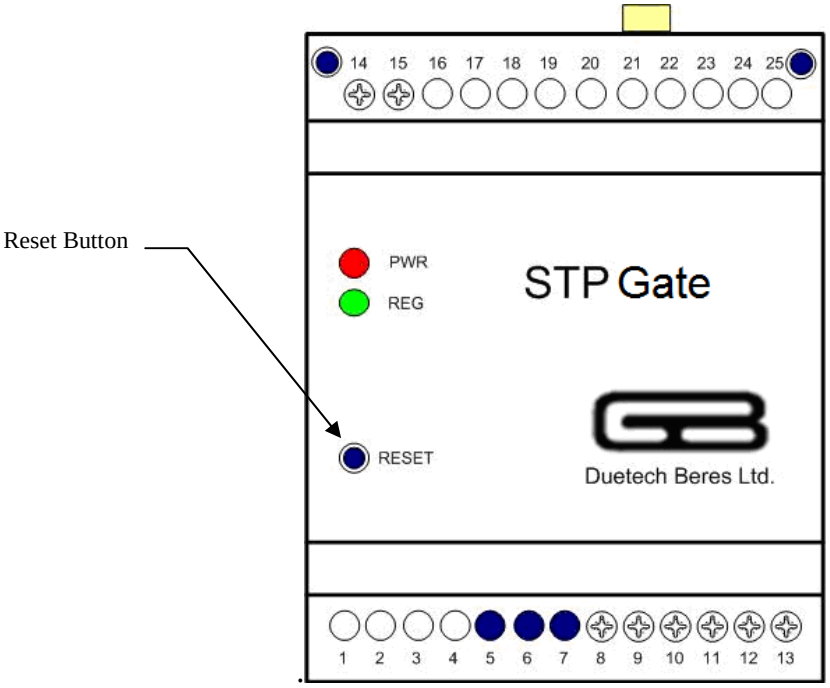


Figure 11: STP Gate Reset Button

1.4 Software installation

With the STP Gate kit you received a CD. Click on the **STPG management** setup file. You will find a new icon on your desktop with the name STP Gate Management.

Run the file. A new window of the STP Gate management will open as seen below.

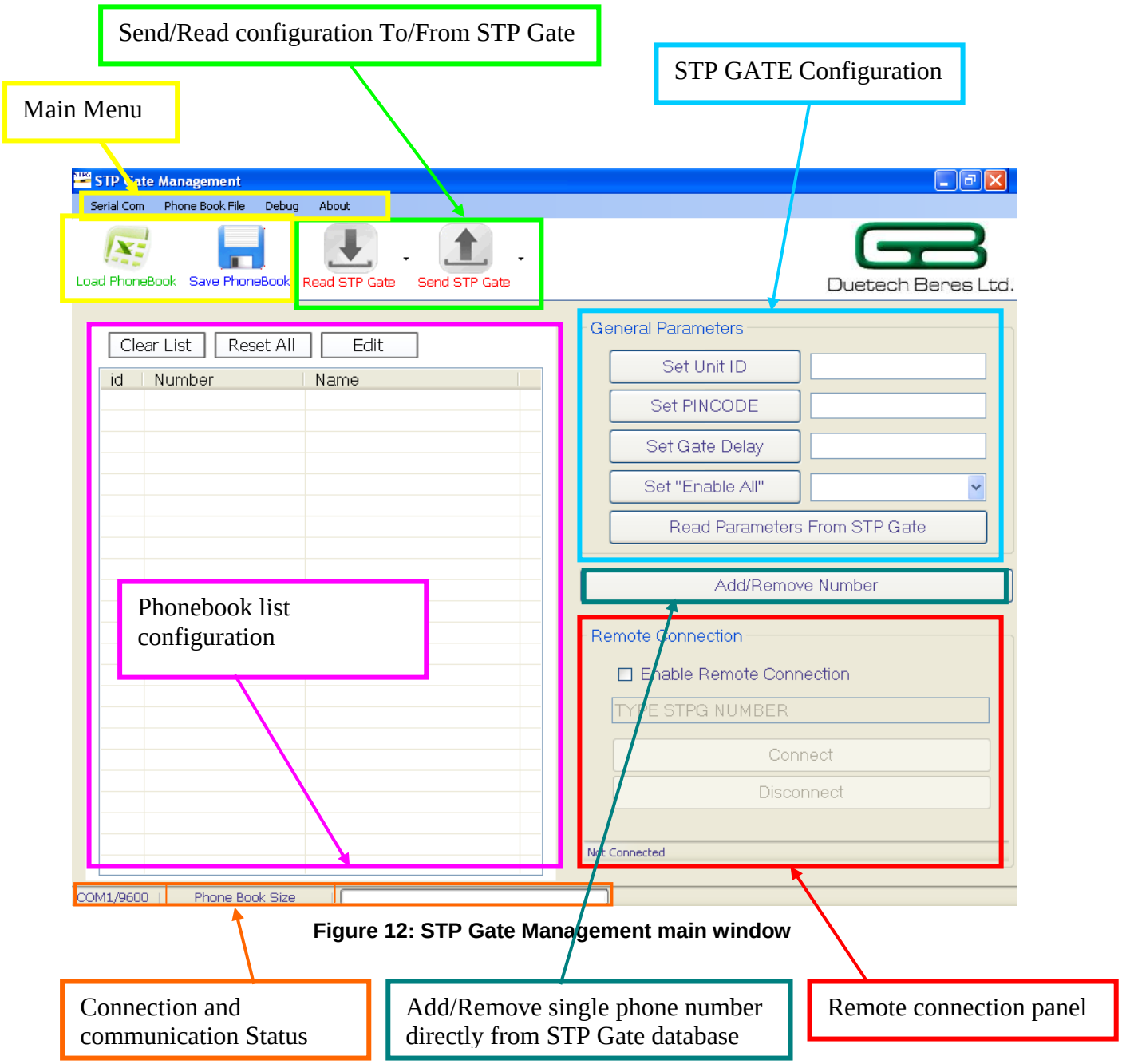


Figure 12: STP Gate Management main window

2. GENERAL CONFIGURATION

2.1 Configuring Serial Connection

After you connected the STP Gate to the computer click on the **Serial com** menu item located in the **Main Menu** and choose your com port and click the open connection option.

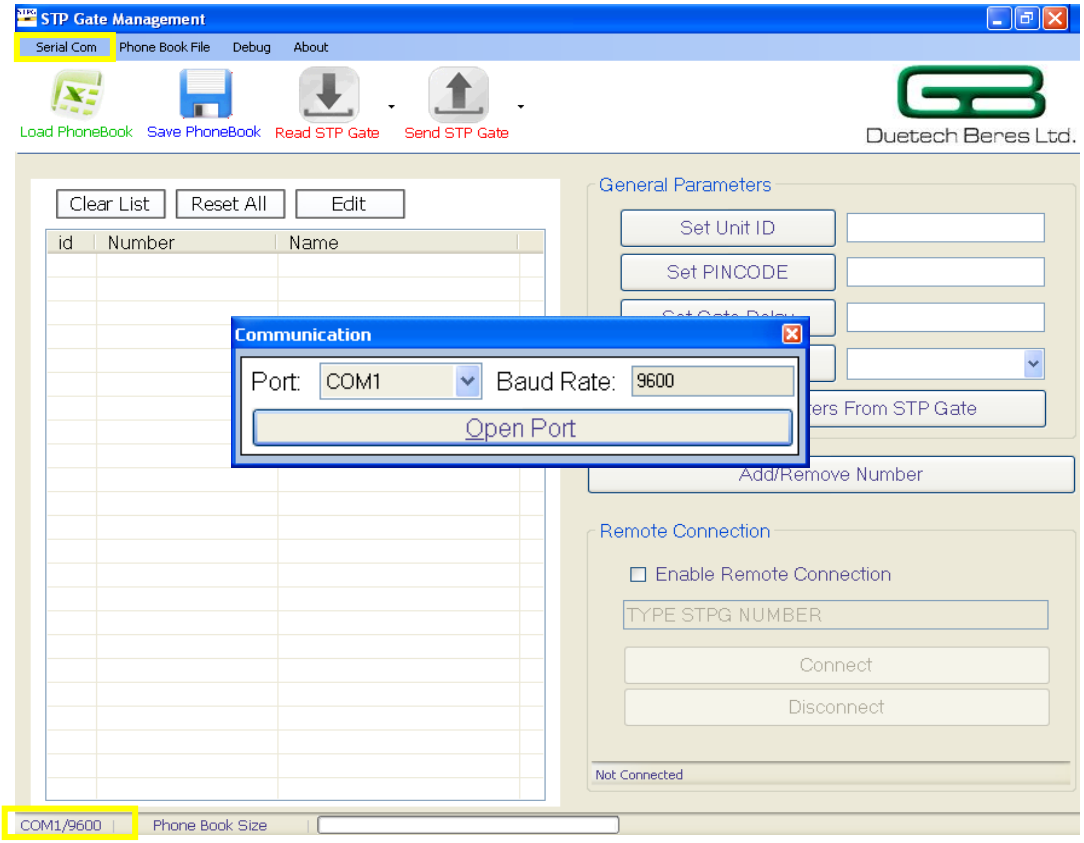


Figure 13: Serial COM selection

After the connection established you should see the connected port and the Baud Rate in the left side of the **Connection Status**

2.2 Configuring PIN code

The access code to the SIM card. Located in the **STP Gate Configuration**.

Use only if your SIM card is locked with PINCODE.

In case your SIM is not locked – leave factory defaults.

Note: default pin code is 1234.

Place the PIN code number in the text box and press the **"Set PIN Code"** and wait for a success message box.

2.3 Configuring device ID

Located in the **STP Gate Configuration**.

The Device ID option allows you to assign an identifying name to each **STP Gate** unit. See **section 5.2 "Sending General Configuration"** on how to configure the device ID.

2.4 Set Gate Delay configuration

The output relay pulse (hooked up to the gate hardware) timing can be set up to a value of 1-200 seconds.

See **section 5.2 "Sending General Configuration"** on how to configure the open gate pulse.

2.5 Set “Enable All” configuration

The STP Gate can be configured to **enable all** callers to open gate or to enable only the phone numbers configured in STP Gate phonebook list.

To **enable all** callers choose the “**True**” option.

If enable all features is not required, choose "**False**".

To make this configuration active, the STP Gate must be restarted.

2.6 Read Parameters from STP Gate

By clicking the "**Read Parameters From STP Gate** " button, STP Gate will reply with 5 parameters, these parameters are: **Unit ID**, **PIN Code**, **Gate Delay and “Enable All” configuration**.

3. PHONEBOOK LIST CONFIGURATION

3.1 How to save a File

To save a file click on the "**Phonebook File" -> "Save As"** in the **Main Menu**.

Or you can click the "**Save Phonebook**" menu item in the **Main Menu**.

In the new window that will appear choose the location of the file you wish to save. And than enter the name of the file you wish to save (i.e. my_contact_list).

Last thing is to choose the type of the file, it can be a text file (*.txt) or an excel file (*.xls)

3.2 How to load a File

To load a File click on the "**Phonebook File" -> "Load**" in the **Main Menu** or you can click the "**Load Phonebook**" menu item in the **Main Menu**.

Seek the location of your saved file and click on it. Than click the "**open**" button.

Your Phonebook List will appear in the Phonebook List window.

	ATTENTION: You must **close** the excel file before trying to load it using STP Gate management. (file must be unlocked)

3.3 Creating a Phonebook list

One of the most important things in the STP Gate is the Phonebook List.

A correct and organized list is the key for a proper work of the gate.

There are two ways of making a Phonebook list.

3.3.1 Phone book number format

A valid phonebook number contains **exactly 10 digits** i.e. **0526649702**.

To prevent National/International numbering problem, the STP Gate ignores the first left digit, this means that STP Gate will try to look for **526649702** within the incoming caller ID string.

Example of caller ID strings:

National number 0526649702

International number +972526649702

In case the desired number is a 9 digit number, you must **add "0"** in the left.

Example of 9 digit number formatting:

The desired number is: **657485786**

The required format: **0657485786**

3.3.2 Creating a Phonebook List from a file

One option of creating a Phonebook List is from a file. This option is more usable when you need to create a big contact list.

⚠	**WARNING:** The list that's been created must be equal or smaller then the **maximum phonebook list size** of the **STP Gate**

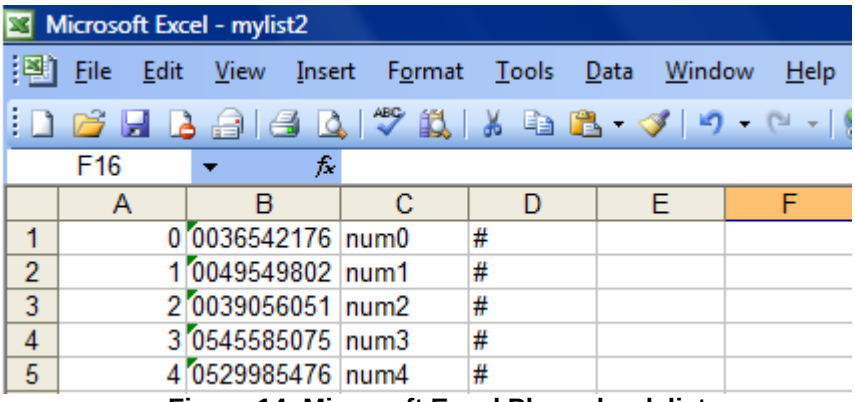
NOTE: To retrieve your STP Gate phone numbers capacity see section 2.6 "**Read Parameters from STP Gate"**

To do so you need to open your office excel program and enter your contact list in a specific order in 4 columns. The first column will be the **ID number** of the contact. This number is an integer starting from 0. Each number will represent the location of the contact in the list.

The second column is the **contact phone number**, the third column is the **contact name** and the forth column is a special tab, for example "#"

NOTE: The tab can be any tab. It is recommended to use the "#" tab

Here is an example:



	A	B	C	D	E	F
1	0	0036542176	num0	#		
2	1	0049549802	num1	#		
3	2	0039056051	num2	#		
4	3	0545585075	num3	#		
5	4	0529985476	num4	#		

Figure 14: Microsoft Excel Phone book list

After you filled out your list you must save it.

Click on **"File"** in the Toolbar and than click on **"Save as".**

Enter the name you wish to give to your Phonebook List, and in the **"Save As Type"** choose **the "Text(Tab delimited)"** type.

For example **my_list.txt** .

After all is done close the excel program.

If your phonebook list size is **smaller** then the maximum list size of the **STP Gate**, you should first **RESET**(see **section 3.5 "Resetting Phonebook"**) the phonebook list and then load your file.

To load a file see **section 3.2 "How to load file".**

3.3.3 Creating a Phonebook List manually

Second option of creating a Phonebook List is directly from the STP Gate Management.

This option is more suitable for small contact list.

In order to add a contact name, follow these simple steps:

1) Click on the "**Read STP Gate**" button and choose the "**Read All**" option.

The entire phone book list will load and be displayed in the Phone book list window.

2) Choose a slot you wish to enter new number and click on the "**Edit**" button.

For editing a number please refer to **section 3.4 "Editing the Phonebook List"**

To enter another contact you need to do the same procedure.

After you entered all of your contacts, it is recommended that you save the Phonebook list to a file.

To save a file see **section 3.1 "How to save file"**

In case a phone number is added in a location that exceeds the phone book list size, the contact number will be ignored by the STP Gate.

NOTE: To retrieve your STP Gate phone numbers capacity see section 2.6 **"Read Parameters from STP Gate"**

3.4 Editing Phonebook List

You can edit a contact from the Phonebook List in case there was a mistake in the typing or the phone number has changed.

To do so, click on the contact you wish to edit from the Phonebook List and click the "**Edit**" button in the **Phonebook List Configuration**.

A new window will appear allowing you to change the name parameter or the phone number parameter.

After you edited your contact click on the "**OK**" button. The new edited contact will appear in the Phonebook List section in the main program window.

After you finished editing your contacts don't forget to save the Phonebook List to a file. (see **section 3.1 "How to save file"**)

3.5 Resetting Phonebook

In order to reset a phonebook. First thing to do is to read the phone book list from the STP Gate. After the list has been populated, you can reset it. This option will change all the numbers listed to "0000000000".

To do so you need to click the "**Reset Phonebook**" button that's located in the **Phonebook List Configuration**.

After changes have been made, don't forget to send them to the STP gate.

See section 5.1 "**Sending Phone book List**" how to do so.

3.6 Clearing Phonebook

To clear the entire phone book list click the "**Clear List**" button that's located in the **Phonebook List Configuration**.

This option will clear all the phone numbers from the phone book list window.

4. ESTABLISHING CONNECTION WITH STP GATE

4.1 Direct RS232 cable connection

It is recommended to initiate the phonebook using direct cable before the first usage.

Configuring the STP Gate using a cable is much more effective in sense of communication speed.

When the STP Management application is executed, the serial port is scanned looking for a connected STP Gate device, if a device is found, a message box with the device's ID will appear, otherwise you will get a message saying STP Gate not found.

See **section 1.3.3 "Connecting the RJ45 cable"** .

4.2 Remote connection (modem)

For slightly adjustments and configuration it is recommended to use the remote connection. The benefit of this connection is by managing the STP Gate from a remote distance.

The requirements for remote communicating with the STP Gate are:

- Modem that supports CSD communication. (If the modem uses SIM card, make sure that the SIM card supports CSD)
- Communication baud rate of 9600 bps.

Our recommendation for CSD communication is using a TP232 in manual mode operation .For more information about TP232 please refer to “TP232 user manual V1.0” At: ***http://www.duetech.gberes.com/new2*** ***--> Technical Downloads***

To make this connection operational you need to:

1. Connect your modem through a serial connection to PC.
2. Open STP Gate Management.
3. Choose correct serial COM Port.
4. Click on "**Enable Remote Connection**" Check box.
5. Write down the phone number of the STP Gate.

IMPORTANT: Make sure that the phone number of the calling modem is located at the STP Gate Phonebook. Otherwise the CSD connection will not work.
To add a phone number locally please refer to section 1.3.3 **“Connecting the RJ45 cable”** for connecting the STP Gate to PC. And section 3.3 **“Creating Phonebook List”** to add/edit the calling modem Phone number for CSD connection.

Enter the phone number of the STP Gate and PIN Code and click the "**CONNECT**" button.

Connection is established after approximately 25 seconds.

A "**Connected**" window will appear indicating that a connection was established successfully and a connected status will appear in the lower section of the **Remote Connection**. During this connection you will be able to send and configure the STP Gate remotely.

After you finished communicating with the STP Gate, click on the "**DISCONNECT**" button. A disconnected window will appear and the status connection will change to "**Not Connected**" in the lower section of the **Remote Connection**.

In case the remote connection could not be established because of any reason, a message window “**Disconnected or remote side busy**” will appear.

NOTE: In remote connection, you will not be able to **remove/edit/erase** the phone number that’s located at the head of the list (location ID 0).

5. SENDING DATA TO STP GATE

5.1 Sending Phonebook List

After editing the Phonebook List you need to send it to the STP Gate.

It is possible to send the entire Phone book list or a section of it.

- In order to send all the Phonebook List you need to click in the **Send/Read Configuration** on the "**Send STP Gate**" and then "**Send All**".

  Before sending the phonebook list, GATE Management will verify the phonebook list size of the STP Gate product. In case the local phonebook list size is smaller then the STP Gate defined phonebook size, the application assumes empty records for the non defined records.

  Example: STP Gate phone book list size is 200. And Phone book size loaded from an excel file is 150 numbers. If "**Send All**" command was chosen, the 150 phone numbers will be sent, and additionally 50 numbers of 0000000000 will be sent.

- In order to send a section of the list you need to mark the selected area of the Phonebook List with your mouse, and then click the "**Send STP Gate**" and on the "**Send Selected**".

  During the sending process, a status bar located in the **Connection Status** will indicate about the progress of the process.

NOTE: Using Send Selected , you can send up to 60 selected phone numbers at once.

5.2 Sending general configuration

- Configuring the device ID will be set after you enter a name or a number in the fill out table located in the **STP Gate Configuration** and clicking the "**Set Unit ID**"
- Configuring the Gate Delay is easy, all you need to do is to set a number (in seconds) in the fill out window in the **STP Gate Configuration** and click the "**SET Gate Delay**" button.
- Setting the pin code will be done after you enter the pin number of the SIM card located in the desirable STP Gate and click the "**Set PIN Code**". The default number is 1234.

6. READING DATA FROM STP GATE

6.1 Reading Phonebook List

After you plug the STP Gate it is recommended to read the data from it.

To do so, click in the **Send/Read Configuration** on the "**Read STP**" and than "**Read All**", if the Phonebook List size is 200 than you'll see in the **Phonebook List Configuration** all the contacts starting from 0 to 199.

During the reading process, a status bar located in the **Connection Status** will indicate about the progress of the process.

NOTE: The reading of the Phonebook List from the STP Gate will show only the ID and phone number of the contacts. The contacts name will not be shown.

6.2 Reading Last Error

This feature gives to user the information about last connection breakdown. If for any reason the STP Gate had trouble to establish a GSM or CSD connection the user have the ability to query the STP Gate about the last connection error.

To make the query click on the **"debug"** button located in the **main menu** and choose the **"Read Last Error"** option.

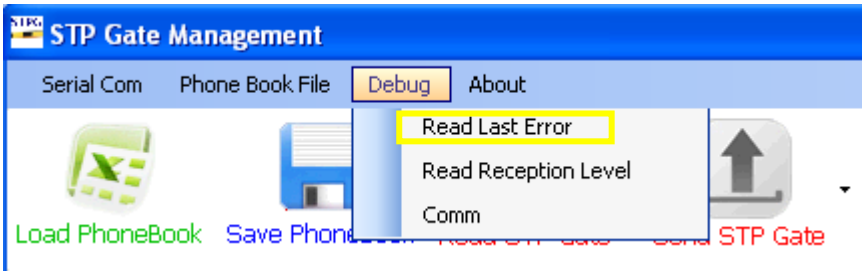


Figure 15: Debug options – "Read Last Error"

The feature can be implemented in local connection mode (STP Gate connected directly to computer), or in CSD connection.

6.3 Reading Reception Level

This feature gives the user the information about the current reception level of the STP Gate.

At any point the user can query the STP Gate about the reception level. With that information the user could decide whether the current location he wishes to place the STP Gate is good or bad.

To make the query click on the **“debug”** button located in the **main menu** and choose the **“Read Reception Level”** option.

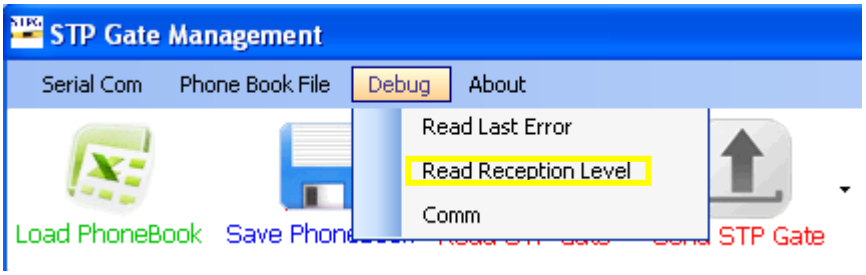


Figure 15: Debug options – “Read Reception Level”

The feature can be implemented in local connection mode (STP Gate connected directly to computer), or in CSD connection.

7. ADDING AND REMOVING NUMBER

This feature enables the user to **add or remove** number directly to the **STP Gate phone book list memory**.

After using this feature, the current changes will be implemented immediately.

To use this feature click on the **"Add/Remove Number"** button.

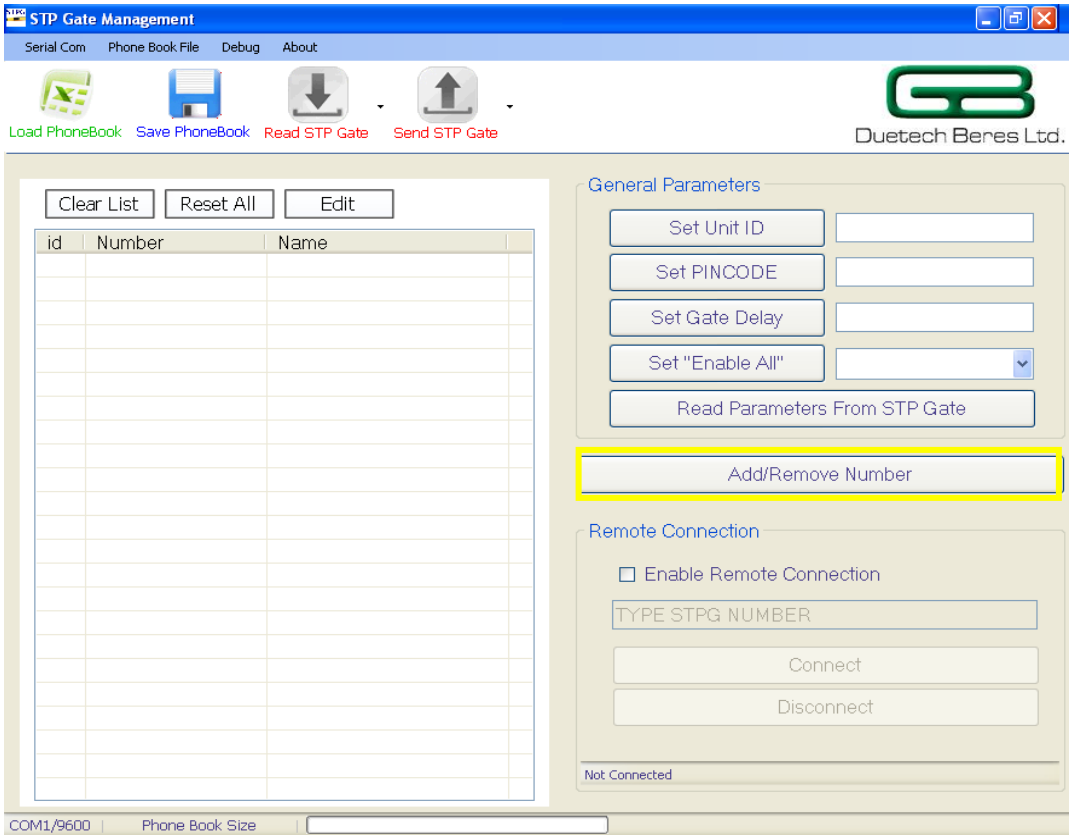


Figure 16: STP Gate Management – "Add/Remove Number"

After clicking this button a new window will appear, prompting to enter a phone number.

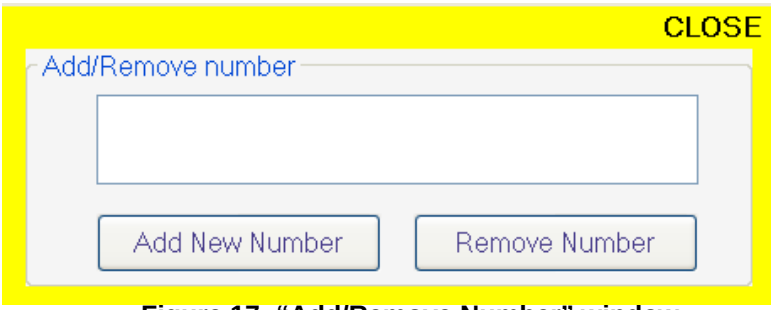


Figure 17: "Add/Remove Number" window

NOTE: The number must be at least 10 digits long

7.1 Adding number

1. Write down the phone number you wish to add at the text box.
2. Click on the "**Add New Number**" button.

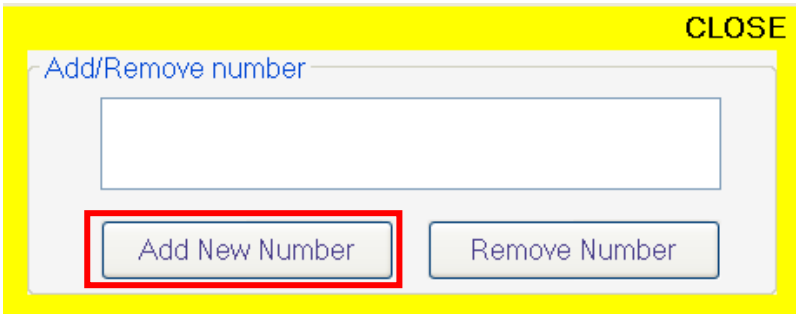


Figure 18: "Add/Remove Number" window

The new number will be placed at the first empty location available,
And a message of **"Add OK"** will appear.

7.2 Removing number

1. Write down the phone number you wish to remove at the text box.
2. Click on the "**Remove Number**" button.

Figure 19: "Add/Remove Number" window

If the number is located in the **STP Gate phone book list memory**, it will be removed. (**new number of 10 0's will be place instead automatically**).
If the number does not exist in the **STP Gate phone book list memory**, a message of **"Number Not Found!"** will appear.

To see the update number changes in the phone book list table, click on the **"Read STP Gate"** button and select the **"Read All"** or **"Read Selected"**

NOTE: It is not possible to remove a number located in location id **0**

8. CONFIGURING PHONEBOOK LIST WITH SMS

This application will be optional only if you know the STP Gate phone number, and listed in one of the location 0-5 in the Phonebook List of the STP Gate.

8.1 Erasing Contact Number

To erase a number with SMS you need to write a message in your Mobile phone.

The syntax will be: **9<Phone number>**

After the STP Gate finished the process, the user will receive an SMS back to his mobile phone "***Unit ID: Update OK***"

The number in the Phonebook List in the STP Gate that was erased will be replaced with the number "**0000000000**" this means that this location is empty

For example:

Outgoing SMS: **9**0527764937

Explanation: I want to erase the number 0527764937

Incoming SMS: Unit ID: Update OK.

Table 5: Erasing number procedure

STATUS	SMS	Phonebook List Index	Phone number
		34	0527764937
Outgoing SMS	90527764937	34	0527764937
Process		34	0000000000
Incoming SMS	Unit ID: Update OK	34	0000000000

8.2 Adding Contact Number

To add a number with SMS you need to write a message in your Mobile phone.

The syntax will be: **1<Phone number>**

the new number will be added to the first empty location in the STP Gate Phonebook.

After the STP Gate finished the process, the user will receive an SMS back to his mobile phone " ***Unit ID: Update OK***"

For example:

Outgoing SMS: **1**0525603862

Explanation: I want to ADD the number 0525603862

Incoming SMS: Unit ID: Update OK.

Table 6: Adding number procidure

STATUS	SMS	Phonebook List Index	Phone number
		34	0546659307
		35	empty
Outgoing SMS	10525603862		
Process			
Incoming SMS	Unit ID: Update OK	35	0525603862

8.3 Reading Contact Number

To read a number with SMS you need to write a message in your Mobile phone.

The syntax will be: **R,<index>**

After the STP Gate finished the process, the user will receive an SMS back to his mobile phone with the number located in the requested index

For example:

Outgoing SMS: R,34

Explanation: I want to read the number located in index 34

Incoming SMS: Unit ID: requested phone number.

Table 7: Reading number procidure

STATUS	SMS	Phonebook List Index	Phone number
		34	0546659307
Outgoing SMS	R,34	34	0546659307
Process		34	0546659307
Incoming SMS	Unit ID:0546659307	34	0546659307

9. FOR FURTHER INFORMATION

For more information about our products, recommendations for accessories, components, online documentation and updates, please visit our website: ***http://www.duetech.gberes.com/new2***

Revision History:

Date	Rev	Author
26/11/09	1.01	Yaron Babar
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